

A GEOMETRIC COMPARISON BETWEEN REPRESENTATIONS OF REAL AND P-ADIC GROUPS

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Time： Friday, November 27th, 16:00-17:00

Venue: Room 102, SCMS

Abstract:

In this talk, I will present a geometric comparison of representations of two pairs of real and p-adic groups: between GL_n(C) and GL_m(Q_p), and between U(p,q) and Sp(m,Q_p) or SO(m,Q_p). The comparisons are achieved by constructing an open embedding between the Langlands parameter spaces. We will sketch the construction, describe some desired properties, and discuss applications to Arthur packets and unitary representations. This is based on joint work (partly ongoing) with Taiwang Deng, Chang Huang, and Bin Xu.